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TSCA INFORMATION NOW CURRENT THROUGH JULY 14, 2005

  Please note that search-term pricing does apply when
  conducting SmartSELECT searches.

*******************************************************************
*                                                                 *
* The CA roles and document type information have been removed from *
* the IDE default display format and the ED field has been added,   *
* effective March 20, 2005.  A new display format, IDERL, is now    *
* available and contains the CA role and document type information. *
*                                                                 *
*******************************************************************

Structure search iteration limits have been increased.  See HELP SLIMITS
for details.

Experimental and calculated property data are now available. For more
information enter HELP PROP at an arrow prompt in the file or refer
to the file summary sheet on the web at:
http://www.cas.org/ONLINE/DBSS/registryss.html

=> d que sta l8
L6                STR
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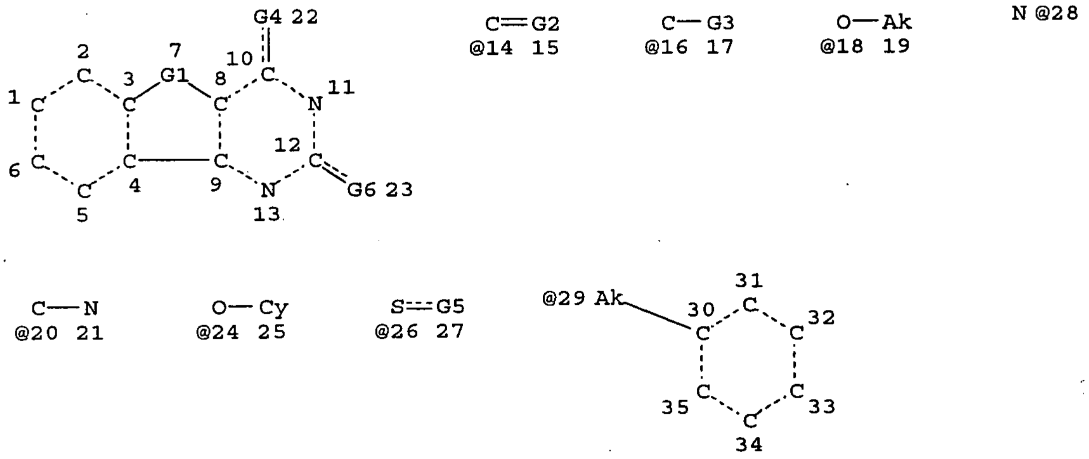

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VAR G6=H/AK/29/O/N
NODE ATTRIBUTES:
NSPEC   IS RC      AT  21
NSPEC   IS RC      AT  28
DEFAULT MLEVEL IS ATOM
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
RING(S) ARE ISOLATED OR EMBEDDED
NUMBER OF NODES IS  35

STEREO ATTRIBUTES: NONE
L8          190 SEA FILE=REGISTRY SSS FUL L6

100.0% PROCESSED    5082 ITERATIONS                       190 ANSWERS
SEARCH TIME: 00.00.01
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L9 ANSWER 1 OF 2 HCAPLUS COPYRIGHT 2005 ACS on STN

AN 2001:369709 HCAPLUS

DN 134:366812

TI Preparation of indenopyridines or indenopyrimidines as cGMP-specific phosphodiesterase inhibitors

IN Ito, Kunihito; Umeda, Nobihiro; Uchida, Seiichi; Oshiki, Kousuke; Horikoshi, Hiromi; Mochizuki, Nobuo

PA Nippon Soda Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 40 pp.
CODEN: JKXXAF

DT Patent

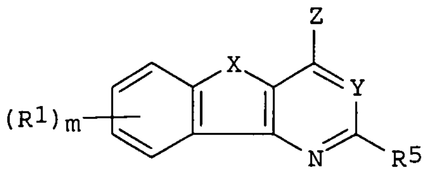
LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.		DATE
PI	JP 2001139556	A2	20010522	JP 2000-72712		20000315
				JP 1999-73646	A	19990318
				JP 1999-247435	A	19990901

OS MARPAT 134:366812

GI



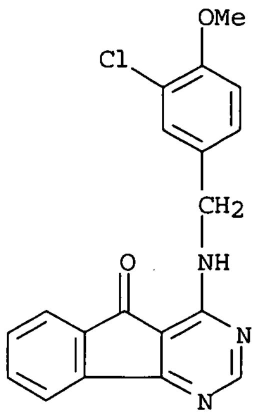
I

AB Indenopyridines or indenopyrimidines I [Z = NHCR2R3R4; R1 = NO2, halo, C1-6 (halo)alkyl, C1-6 (halo)alkoxy, C1-6 alkylthio, C1-6 alkoxycarbonyl, (alkyl)carbamoyl; X = CH2, CO; Y = N, CH; m = 0-4; R2, R3 = H, OH, halo, C1-6 (halo)alkyl, C1-6 alkoxy, (un)substituted Ph; R4 = H, C1-6 alkyl, C3-8 cycloalkyl, (un)substituted Ph, (un)substituted naphthyl, etc.; R5 = H, cyano, SPh, C1-6 haloalkyl, C1-6 alkylthio, C3-8 cycloalkyl, etc.] are prepared by reaction of I (Z = SMe, SO2Me, halo) with H2NCR2R3R4 (R2-R4 = same as above). I (Z = SO2Me, R1 = H, X = CO, Y = CH, R5 = 4-pyridyl) (0.2 g) was treated with benzylamine in DMF at 100° for 1 h to give 0.11 g I (Z = NHCH2Ph, R1 = H, X = CO, Y = CH, R5 = 4-pyridyl), which in vitro showed vasodilatory effect on rat thoracic aorta with EC50 of 160 nM, vs. 6.1 nM, for Sildenafil.

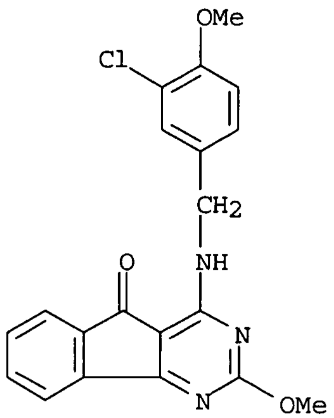
IT **340164-69-4P 340164-80-9P 340164-82-1P**
340164-83-2P 340164-84-3P
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of indenopyridines or indenopyrimidines as cGMP-specific phosphodiesterase inhibitors)

RN 340164-69-4 HCAPLUS

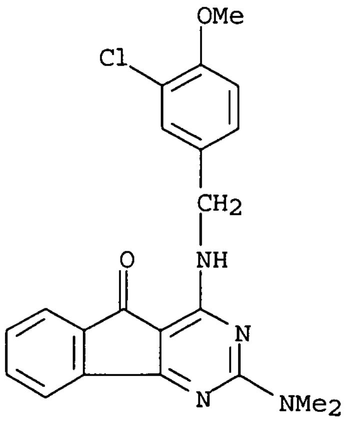
CN 5H-Indeno[1,2-d]pyrimidin-5-one, 4-[[(3-chloro-4-methoxyphenyl)methyl]amino]- (9CI) (CA INDEX NAME)



RN 340164-80-9 HCAPLUS
CN 5H-Indeno[1,2-d]pyrimidin-5-one, 4-[[(3-chloro-4-methoxyphenyl)methyl]amino]-2-methoxy- (9CI) (CA INDEX NAME)

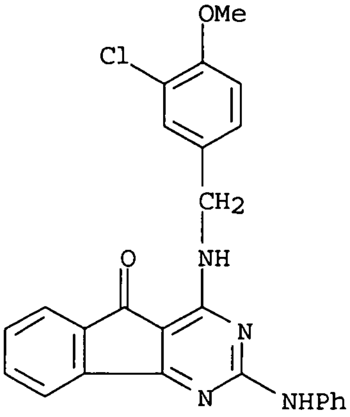


RN 340164-82-1 HCAPLUS
CN 5H-Indeno[1,2-d]pyrimidin-5-one, 4-[[(3-chloro-4-methoxyphenyl)methyl]amino]-2-(dimethylamino)- (9CI) (CA INDEX NAME)



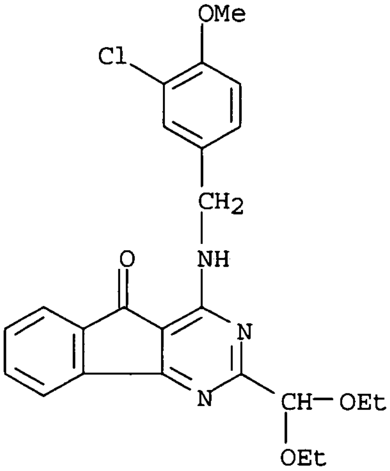
RN 340164-83-2 HCAPLUS
CN 5H-Indeno[1,2-d]pyrimidin-5-one, 4-[[(3-chloro-4-methoxyphenyl)methyl]amino]-2-(phenylamino)- (9CI) (CA INDEX NAME)

2



RN 340164-84-3 HCAPLUS

CN 5H-Indeno[1,2-d]pyrimidin-5-one, 4-[[(3-chloro-4-methoxyphenyl)methyl]amino]-2-(diethoxymethyl)- (9CI) (CA INDEX NAME)



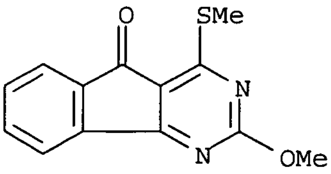
IT **150365-49-4P 340165-03-9P 340165-12-0P**

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation of indenopyridines or indenopyrimidines as cGMP-specific phosphodiesterase inhibitors)

RN 150365-49-4 HCAPLUS

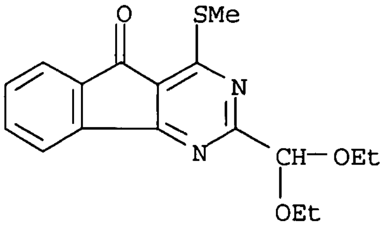
CN 5H-Indeno[1,2-d]pyrimidin-5-one, 2-methoxy-4-(methylthio)- (9CI) (CA INDEX NAME)



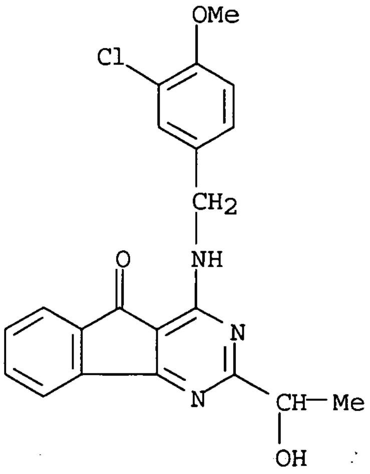
RN 340165-03-9 HCAPLUS

CN 5H-Indeno[1,2-d]pyrimidin-5-one, 2-(diethoxymethyl)-4-(methylthio)- (9CI) (CA INDEX NAME)

3



RN 340165-12-0 HCAPLUS
CN 5H-Indeno[1,2-d]pyrimidin-5-one, 4-[[(3-chloro-4-methoxyphenyl)methyl]amino]-2-(1-hydroxyethyl)- (9CI) (CA INDEX NAME)



ANSWER 2 OF 2 HCAPLUS COPYRIGHT 2005 ACS on STN

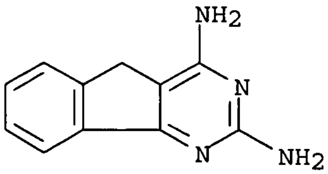
ACCESSION NUMBER:	1999:457817 HCAPLUS
DOCUMENT NUMBER:	131:214250
TITLE:	One-step synthesis of novel 2,4-diaminopyrimidine antifolates from bridged alicyclic ketones and cyanoguanidine
AUTHOR(S):	Rosowsky, Andre; Papoulis, Andrew T.; Queener, Sherry F.
CORPORATE SOURCE:	Dana-Farber Cancer Institute and Department of Biological Chemistry and Molecular Pharmacology, Harvard Medical School, Boston, MA, 02115, USA
SOURCE:	Journal of Heterocyclic Chemistry (1999), 36(3), 723-728 CODEN: JHTCAD; ISSN: 0022-152X
PUBLISHER:	HeteroCorporation
DOCUMENT TYPE:	Journal
LANGUAGE:	English

AB A convenient one-step reaction with cyanoguanidine was used to convert alicyclic ketones to previously undescribed 2,4-diamino-5,6,7,8-tetrahydroquinazolines with a one-, two-, or three-carbon bridge in the carbocyclic ring. Although the yields of the desired products were modest, the principal advantage of this one-step process was that it provided easy access to a variety of novel bridged heterocyclic ring systems whose synthesis from sterically hindered ketones by other methods would have required multiple steps with an even lower overall yield. The products were tested as inhibitors of dihydrofolate reductases from Pneumocystis carinii, Toxoplasma gondii, and rat liver with a view to examining the effect of a space-filling bridge on binding. The most potent and selective compound in the group was 4,6-diamino-3,5-diazatricyclo[7.2.1.02,7]dodeca-2,4,6-triene (5,6,7,8-tetrahydro-6,8-ethanoquinazoline-2,4-diamine), whose potency and selectivity approached those of trimethoprim, a drug commonly used to treat P. carinii and T. gondii infection. 5,6,7,8-Tetrahydro-5,8-methanoquinazoline-2,4-diamine (3,5-diamino-4,6-diazatricyclo[6.2.1.02,7]-undeca-2,4,6-triene) having a one-carbon rather than a two-carbon bridge showed similar potency and selectivity against the T. gondii enzyme, but was a weak and nonselective inhibitor of P. carinii dihydrofolate reductase. The other compds. tested were likewise weak and nonselective.

IT **95140-64-0P**, 5H-Indeno[1,2-d]pyrimidine-2,4-diamine
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
(preparation and antifolate activity of fused bicyclic pyrimidinediamine derivs.)

RN 95140-64-0 HCAPLUS

CN 5H-Indeno[1,2-d]pyrimidine-2,4-diamine (9CI) (CA INDEX NAME)



REFERENCE COUNT:

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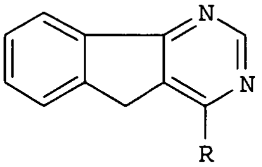
ANSWER 1 OF 1 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1997:623340 HCAPLUS
DOCUMENT NUMBER: 127:331459
TITLE: Indeno[1,2-d]pyrimidin-4-amines
AUTHOR(S): Gorlitzer, K.; Herbig, S.; Walter, R. D.
CORPORATE SOURCE: Institut Pharmazeutische Chemie, Technische Universitat Braunschweig, Braunschweig, D-38106, Germany
SOURCE: Pharmazie (1997), 52(9), 670-672
CODEN: PHARAT; ISSN: 0031-7144
PUBLISHER: Govi-Verlag Pharmazeutischer Verlag
DOCUMENT TYPE: Journal
LANGUAGE: German
OTHER SOURCE(S): CASREACT 127:331459
GI



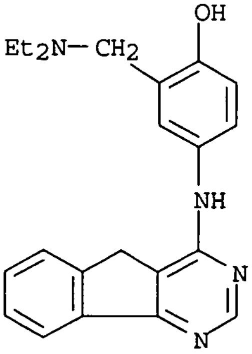
I

AB The 2-amino-3-indenenitrile and -carboxylate react with [CH(NH2)2]+AcO- to yield indenopyrimidine I (R = NH2) or 4,5-dihydroindeno[1,2-d]-4(3H)-pyrimidinone, resp. Treatment of the latter with POCl3 furnished chloropyrimidine I (R = Cl), which reacts with N-nucleophiles to form the title compds. I [R = NHC6H4-3,4-(CH2NEt2)OH, NHC6H4-2-Me, NHCHMe(CH2)3NEt2]. Only I [R = NHCHMe(CH2)3NEt2] shows a weak antimalarial activity.

IT **197861-28-2P 197861-29-3P 197861-30-6P**
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
(preparation of indenopyrimidinamines with weak antimalarial activity)

RN 197861-28-2 HCAPLUS

CN Phenol, 2-[(diethylamino)methyl]-4-(5H-indeno[1,2-d]pyrimidin-4-ylamino)-, dihydrochloride (9CI) (CA INDEX NAME)



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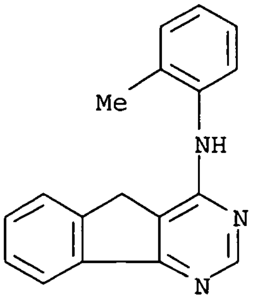
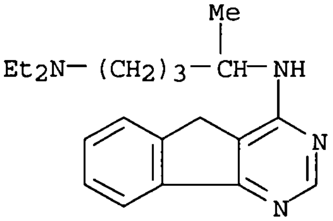
6

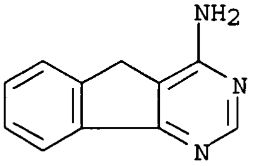
RN 197861-29-3 HCAPLUS
CN 5H-Indeno[1,2-d]pyrimidin-4-amine, N-(2-methylphenyl)- (9CI) (CA INDEX NAME)



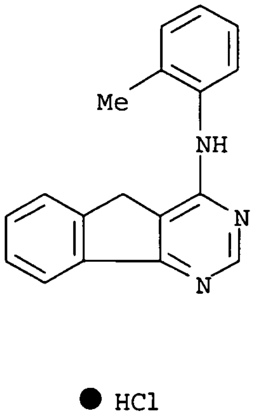
RN 197861-30-6 HCAPLUS
CN 1,4-Pentanediamine, N1,N1-diethyl-N4-5H-indeno[1,2-d]pyrimidin-4-yl- (9CI) (CA INDEX NAME)



IT **197861-25-9P**, 5H-Indeno[1,2-d]pyrimidin-4-amine
197861-31-7P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of indenopyrimidinamines with weak antimalarial activity)
RN 197861-25-9 HCAPLUS
CN 5H-Indeno[1,2-d]pyrimidin-4-amine (9CI) (CA INDEX NAME)



RN 197861-31-7 HCAPLUS
CN 5H-Indeno[1,2-d]pyrimidin-4-amine, N-(2-methylphenyl)-, monohydrochloride (9CI) (CA INDEX NAME)


Me
NH
N
N
● HCl

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L17  ANSWER 1 OF 2  HCAPLUS  COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER:         1996:745516  HCAPLUS
DOCUMENT NUMBER:          126:13066
TITLE:                    Electrophotographic photoreceptor containing
                          diazafluorenone compound as charge-transporting agent
INVENTOR(S):              Watanabe, Yukimasa; Akiba, Nobuko; Kawaguchi,
                          Hirobumi; Mizuta, Yasushi
PATENT ASSIGNEE(S):       Mita Industrial Co Ltd, Japan
SOURCE:                   Jpn. Kokai Tokkyo Koho, 8 pp.
                          CODEN: JKXXAF
DOCUMENT TYPE:            Patent
LANGUAGE:                 Japanese
FAMILY ACC. NUM. COUNT:   1
PATENT INFORMATION:

     PATENT NO.           KIND   DATE        APPLICATION NO.        DATE
     ---------------      ----   --------    --------------------   --------
     JP 08240921           A2    19960917    JP 1995-43244          19950302
PRIORITY APPLN. INFO.:                       JP 1995-43244          19950302
OTHER SOURCE(S):          MARPAT 126:13066
GI
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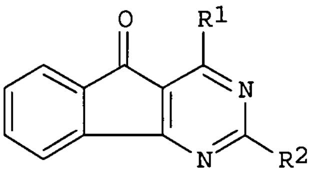

I

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AB    The photoreceptor contains diazafluorenone derivative I (R1-2 = haloalkyl).
      The photoreceptor shows high sensitivity.
IT    39560-81-1P
      RL: DEV (Device component use); PNU (Preparation, unclassified); PREP
      (Preparation); USES (Uses)
         (electrophotog. photoreceptor containing diazafluorenone compound as
         charge-transporting agent)
RN    39560-81-1  HCAPLUS
CN    5H-Indeno[1,2-d]pyrimidin-5-one, 2,4-dimethyl-  (9CI)   (CA INDEX NAME)
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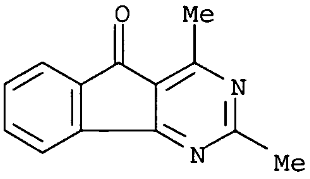


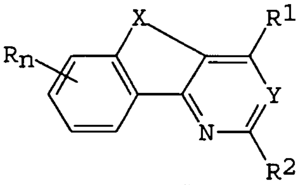
L32 ANSWER 3 OF 4 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1993:603428 HCAPLUS
DOCUMENT NUMBER: 119:203428
TITLE: Novel heterocyclic derivatives and agrohorticultural fungicides containing them
INVENTOR(S): Umeda, Nobuhiro; Saito, Kenji; Hosokawa, Hiroyasu; Hashimoto, Sho
PATENT ASSIGNEE(S): Nippon Soda Co., Ltd., Japan
SOURCE: PCT Int. Appl., 66 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9308167	A1	19930429	WO 1992-JP1384	19921023

W: JP, US
RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, SE

PRIORITY APPLN. INFO.: JP 1991-303771 A 19911024
OTHER SOURCE(S): MARPAT 119:203428
GI



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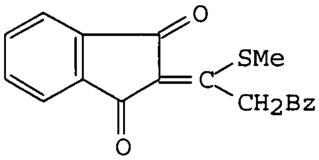


II

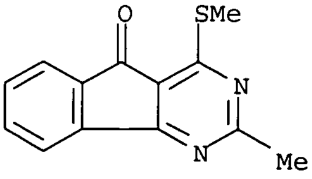
AB Heterocyclic derivs. I (R = H, alkyl, alkoxy, alkylthio, haloalkyl, carbamoyl, etc., n = 1-4; R1 = H, alkylthio, alkylsulfinyl, alkylsulfonyl, etc.; R2 = H, alkoxy, alkyl, Ph, pyridyl, etc.; X = CH_2, CHOH, CO, C:CHOH, etc.; Y = N, CH, etc.) and their salts were prepared Stirring 12 g indan II with NH_4OAc in AcOH at 100° for 6 h gave 4.5 g I (R = H, R1 = MeS, R2 = Ph, X = CO, Y = CH) (III). III showed fungicidal activity superior to that of triadimefon.

IT **70760-89-3P 70760-90-6P 150365-41-6P**
150365-42-7P 150365-43-8P 150365-50-7P
150365-56-3P 150365-62-1P 150365-64-3P
150365-65-4P 150365-66-5P 150365-80-3P
150365-82-5P

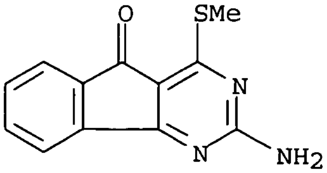
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
(preparation of, as fungicide)

RN 70760-89-3 HCAPLUS

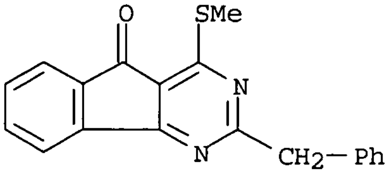
CN 5H-Indeno[1,2-d]pyrimidin-5-one, 2-methyl-4-(methylthio)- (9CI) (CA INDEX NAME)



RN 70760-90-6 HCAPLUS
CN 5H-Indeno[1,2-d]pyrimidin-5-one, 2-amino-4-(methylthio)- (9CI) (CA INDEX NAME)



RN 150365-41-6 HCAPLUS
CN 5H-Indeno[1,2-d]pyrimidin-5-one, 4-(methylthio)-2-(phenylmethyl)- (9CI) (CA INDEX NAME)



RN 150365-42-7 HCAPLUS
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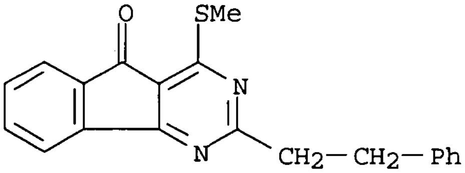

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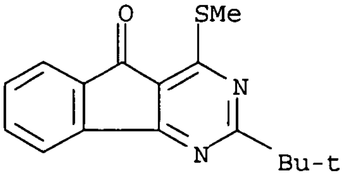

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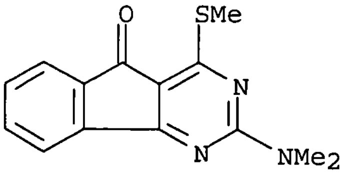

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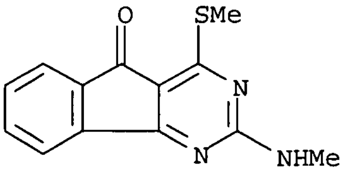
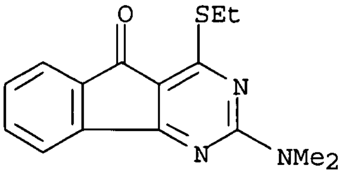
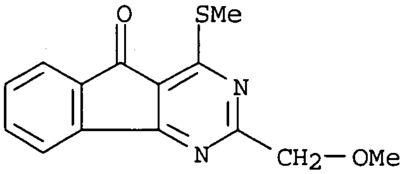


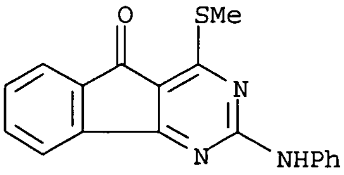
RN 150365-62-1 HCAPLUS
CN 5H-Indeno[1,2-d]pyrimidin-5-one, 2-(dimethylamino)-4-(ethylthio)- (9CI) (CA INDEX NAME)



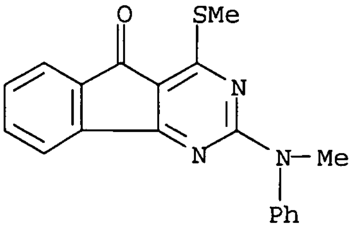
RN 150365-64-3 HCAPLUS
CN 5H-Indeno[1,2-d]pyrimidin-5-one, 2-(methoxymethyl)-4-(methylthio)- (9CI) (CA INDEX NAME)



RN 150365-65-4 HCAPLUS
CN 5H-Indeno[1,2-d]pyrimidin-5-one, 4-(methylthio)-2-(phenylamino)- (9CI) (CA INDEX NAME)

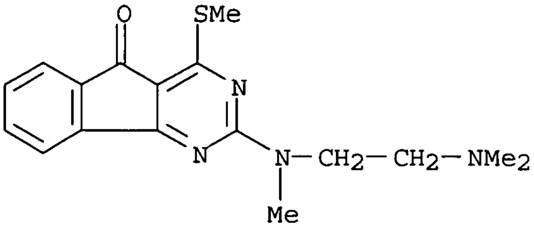


RN 150365-66-5 HCAPLUS
CN 5H-Indeno[1,2-d]pyrimidin-5-one, 2-(methylphenylamino)-4-(methylthio)- (9CI) (CA INDEX NAME)



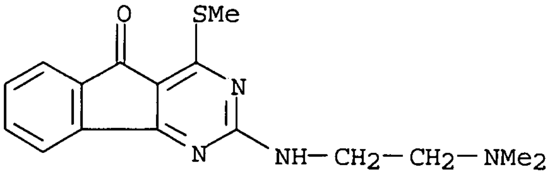
RN 150365-80-3 HCAPLUS

CN 5H-Indeno[1,2-d]pyrimidin-5-one, 2-[[2-(dimethylamino)ethyl]methylamino]-4-(methylthio)- (9CI) (CA INDEX NAME)



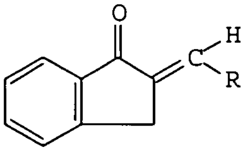
RN 150365-82-5 HCAPLUS

CN 5H-Indeno[1,2-d]pyrimidin-5-one, 2-[[2-(dimethylamino)ethyl]amino]-4-(methylthio)- (9CI) (CA INDEX NAME)



L40 ANSWER 4 OF 4 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1987:575990 HCAPLUS
DOCUMENT NUMBER: 107:175990
TITLE: Heterocycles. 14. Synthesis of 5H-indenopyrimidines
AUTHOR(S): El-Rayyes, Nizar; Al-Qatami, Sheekha; Edun, Mustafa
CORPORATE SOURCE: Dep. Chem., Kuwait Univ., Kuwait, Kuwait
SOURCE: Journal of Chemical and Engineering Data (1987), 32(4), 481-3
CODEN: JCEAAX; ISSN: 0021-9568
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 107:175990
GI



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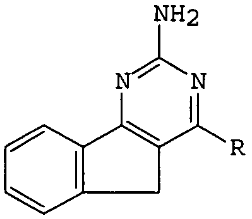
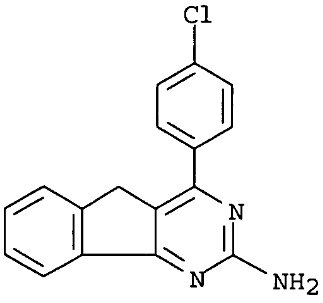


II

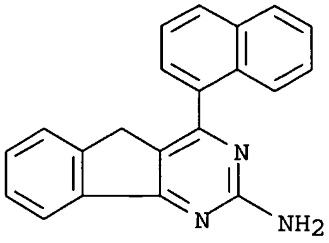
AB 1-Indanone was treated with aryl aldehydes RCHO [R = (un)substituted Ph, naphthyl, etc.] to give corresponding arylideneindanones I. Condensation of I with $HN:C(NH_2)_2$ gave the corresponding aminoarylindenopyrimidines II. The structures of all products were substantiated by chemical and spectroscopic methods.

IT **110117-40-3P 110117-42-5P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation and acetylation or reaction with nitrous acid)

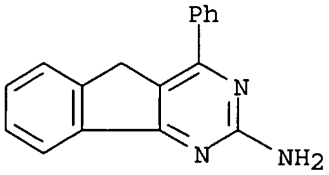
RN 110117-40-3 HCAPLUS
CN 5H-Indeno[1,2-d]pyrimidin-2-amine, 4-(4-chlorophenyl)- (9CI) (CA INDEX NAME)



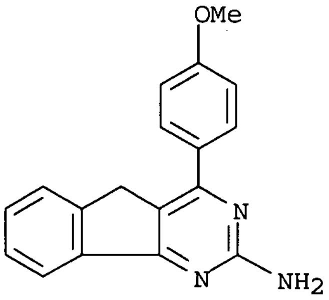
RN 110117-42-5 HCAPLUS
CN 5H-Indeno[1,2-d]pyrimidin-2-amine, 4-(1-naphthalenyl)- (9CI) (CA INDEX NAME)



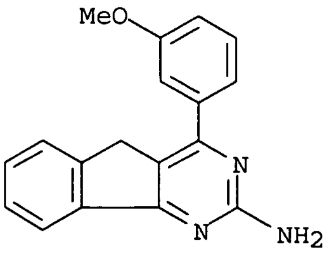
IT **110117-35-6P 110117-36-7P 110117-37-8P**
110117-38-9P 110117-39-0P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 110117-35-6 HCAPLUS
CN 5H-Indeno[1,2-d]pyrimidin-2-amine, 4-phenyl- (9CI) (CA INDEX NAME)



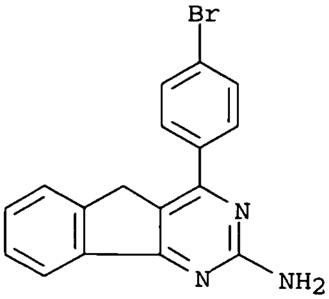
RN 110117-36-7 HCAPLUS
CN 5H-Indeno[1,2-d]pyrimidin-2-amine, 4-(4-methoxyphenyl)- (9CI) (CA INDEX NAME)



RN 110117-37-8 HCAPLUS
CN 5H-Indeno[1,2-d]pyrimidin-2-amine, 4-(3-methoxyphenyl)- (9CI) (CA INDEX NAME)

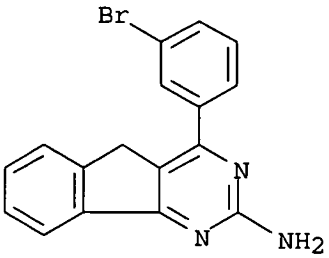


RN 110117-38-9 HCAPLUS
CN 5H-Indeno[1,2-d]pyrimidin-2-amine, 4-(4-bromophenyl)- (9CI) (CA INDEX NAME)



RN 110117-39-0 HCAPLUS

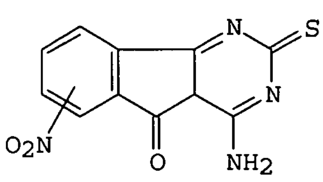
CN 5H-Indeno[1,2-d]pyrimidin-2-amine, 4-(3-bromophenyl)- (9CI) (CA INDEX NAME)



L41 ANSWER 1 OF 1 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER:	1987:477748 HCAPLUS
DOCUMENT NUMBER:	107:77748
TITLE:	Synthesis of new 2,4a-dihydro-4-amino-2-thioxo-5H-indeno[1,2-d]pyrimidin-5-one derivatives
AUTHOR(S):	Kandeel, Ezzat M.; El Morsy, Saad S.; Zimaity, Mohamed T.; Yousif, Mohamed M.
CORPORATE SOURCE:	Fac. Sci., Mansoura Univ., Mansoura, Egypt
SOURCE:	Pakistan Journal of Scientific and Industrial Research (1986), 29(6), 424-6 CODEN: PSIRAA; ISSN: 0030-9885
DOCUMENT TYPE:	Journal
LANGUAGE:	English

GI



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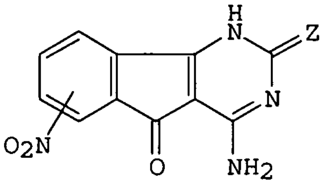


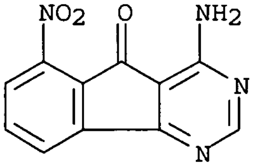
II

AB 2-Cyano-1,3-indandiones underwent cycloaddn.-cyclocondensation reactions with thiourea to yield title compds. I. The latter were converted to II (Z = O, NNH2).

IT **109673-05-4P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

RN 109673-05-4 HCAPLUS

CN 5H-Indeno[1,2-d]pyrimidin-5-one, 4-amino-6-nitro- (9CI) (CA INDEX NAME)



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  ANSWER 1 OF 1  HCAPLUS  COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER:         1984:490866  HCAPLUS
DOCUMENT NUMBER:          101:90866
TITLE:                    Trifluoromethyl-substituted pyrimidines from enamines
                          and trifluoroacetonitrile
AUTHOR(S):                Burger, Klaus; Wassmuth, Ulrike; Hein, Friedrich;
                          Rottegger, Silvia
CORPORATE SOURCE:         Inst. Org. Chem., Tech. Univ. Muenchen, Garching,
                          D-8046, Fed. Rep. Ger.
SOURCE:                   Liebigs Annalen der Chemie (1984), (5), 991-1002
                          CODEN: LACHDL; ISSN: 0170-2041
DOCUMENT TYPE:            Journal
LANGUAGE:                 German
OTHER SOURCE(S):          CASREACT 101:90866
GI
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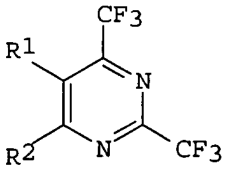
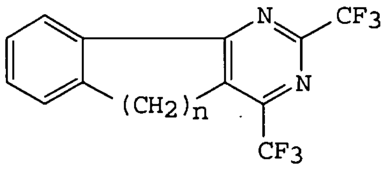
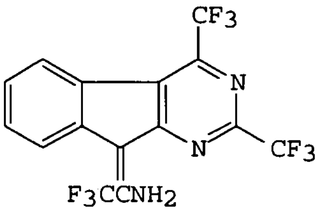


I



II



III

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AB   Cyclization of enamines R1CH:CR2NR3R4 [R1 = Ph, H, CO2Et, R2 = Me3C, Me,
     R1R2 = (CH2)n, n = 3,4,6,10, CH2NMeCH2CH2, R3 = R4 = Me, Et, NR3R4 =
     morpholino, piperidino, pyrrolidino] by F3CCN gave 52-81% I.  Analogously
     obtained from cyclic enamines were II (n = 1,2) and III.  A mechanism for
     these reactions is discussed.
IT   91474-24-7
     RL: RCT (Reactant); RACT (Reactant or reagent)
        (reaction of, with trifluoroacetonitrile)
RN   91474-24-7  HCAPLUS
CN   5H-Indeno[1,2-d]pyrimidine, 2,4-bis(trifluoromethyl)- (9CI)  (CA INDEX
     NAME)
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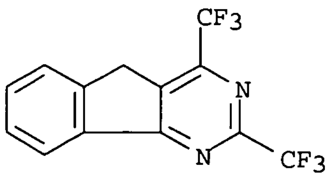

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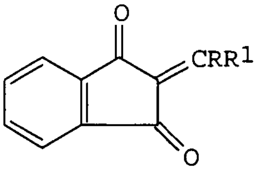
18

L45 ANSWER 4 OF 4 HCAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1979:456670 HCAPLUS
DOCUMENT NUMBER: 91:56670
TITLE: Synthesis and reactions of 2-[bis(alkylthio)methylidene]indan-1,3-diones
AUTHOR(S): Augustin, M.; Groth, C.; Kristen, H.; Peseke, K.; Wiechmann, C.
CORPORATE SOURCE: Sekt. Chem., Martin-Luther-Univ. Halle-Wittenberg, Halle/Saale, DDR-402, Ger. Dem. Rep.
SOURCE: Journal fuer Praktische Chemie (Leipzig) (1979), 321(2), 205-14
CODEN: JPCEAO; ISSN: 0021-8383
DOCUMENT TYPE: Journal
LANGUAGE: German
OTHER SOURCE(S): CASREACT 91:56670
GI



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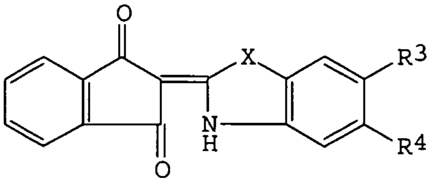
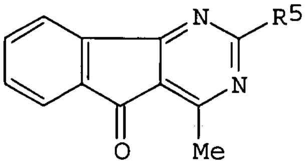


III

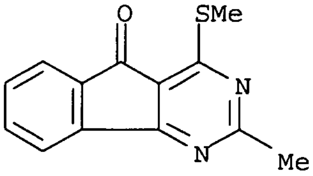


IV

AB The title compds., e.g., I (R = R1 = MeS; II) prepared by the reaction of indandione with CS2, base, and Me2SO4, reacted with nucleophiles by substitution of the MeS group. II reacted with amines to give I (R = SMe, R1 = R2NH) and I (R = R1 = R2NH; R2 = Ph, p-tolyl, etc.); reaction with diamines, amino alcs., or amino mercaptans gave III (X = O, S, NH; R3 = H, MeO, NO2; R4 = H, MeO). II reacted with R5C(NH):NH (R5 = Me, NH2, SMe) to give IV, where the CO group was integrated in the cyclization. Carbanions also caused substitution on II.

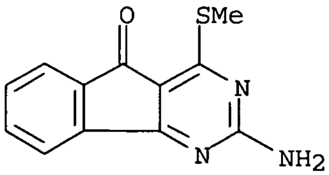
IT **70760-89-3P 70760-90-6P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

RN 70760-89-3 HCAPLUS
CN 5H-Indeno[1,2-d]pyrimidin-5-one, 2-methyl-4-(methylthio)- (9CI) (CA INDEX NAME)



RN 70760-90-6 HCAPLUS
CN 5H-Indeno[1,2-d]pyrimidin-5-one, 2-amino-4-(methylthio)- (9CI) (CA INDEX

NAME)



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L46  ANSWER 1 OF 1  HCAPLUS  COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER:         1972:419601  HCAPLUS
DOCUMENT NUMBER:          77:19601
TITLE:                    2,4-Diaminopyrimidines from dicyandiamide.  IV.
                          Condensation with bicyclic aromatic ketones
AUTHOR(S):                Sengupta, Sisir K.; Chatterjee, Suprabhat; Protopapa,
                          H. Kangur; Modest, Edward J.
CORPORATE SOURCE:         Child. Cancer Res. Found., Harvard Med. Sch., Boston,
                          MA, USA
SOURCE:                   Journal of Organic Chemistry (1972), 37(9), 1323-8
                          CODEN: JOCEAH; ISSN: 0022-3263
DOCUMENT TYPE:            Journal
LANGUAGE:                 English
GI   For diagram(s), see printed CA Issue.
AB   The synthesis of several tricyclic diaminopyrimidine derivs. by
     condensation of dicyandiamide with bicyclic aromatic ketones is reported.
     An interesting skeletal rearrangement was observed when 2,4-
     diaminobenzo[g]quinazoline (I) was isolated as the major product of
     Pd-charcoal dehydrogenation (under disproportionation conditions) of
     1,3-diamino-5,6-dihydrobenzo[f]-quinazoline (II), the 2-tetralone-
     dicyandiamide condensation product.  Representatives of the
     2,4-diaminobenzo[h]quinazoline, the 2,4-diaminothieno[2,3-h]quinazoline,
     and the 2,4-diamino-5H-indeno[1,2-d]pyrimidine ring systems are described.
IT   33987-16-5P
     RL: SPN (Synthetic preparation); PREP (Preparation)
        (preparation of)
RN   33987-16-5  HCAPLUS
CN   5H-Indeno[1,2-d]pyrimidine-2,4-diamine, monohydrochloride (9CI)  (CA INDEX
     NAME)
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